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MS SAMUELA
BOX NO. 8132

September 17, 1998

Volume 23 No. 4

Washington University in St. Louis



Top-level training

New Olin center to house executive education programs

By NANCY BELT

A five-story residential learning center for executive education—the Charles F. Knight Executive Education Center—will be built on the former Mudd Hall site on the north side of the Hilltop campus for the John M. Olin School of Business.

The facility, named after the chairman and chief executive officer of Emerson Electric Co., will house degree and non-degree programs for mid- through senior-level executives and will serve a growing need for career-long learning.

The structure, to be built directly east of Anheuser-Busch Hall and north of Simon Hall, will enclose more than 120,000 square feet. Groundbreaking will be in early 1999, and the facility should be finished in 2001.

Unique to this part of the Midwest, the structure will include classrooms, group study rooms, dining facilities, several lounges, a distance-learning studio and 65 units providing overnight lodging. Because it will offer learning and lodging in an integrated environment—so that executive students no longer will need to go off-campus for overnight lodging when they have classes—it is expected to attract participants from an even wider geographic area than the school now serves.

“The trustees’ decision to build this structure signals the

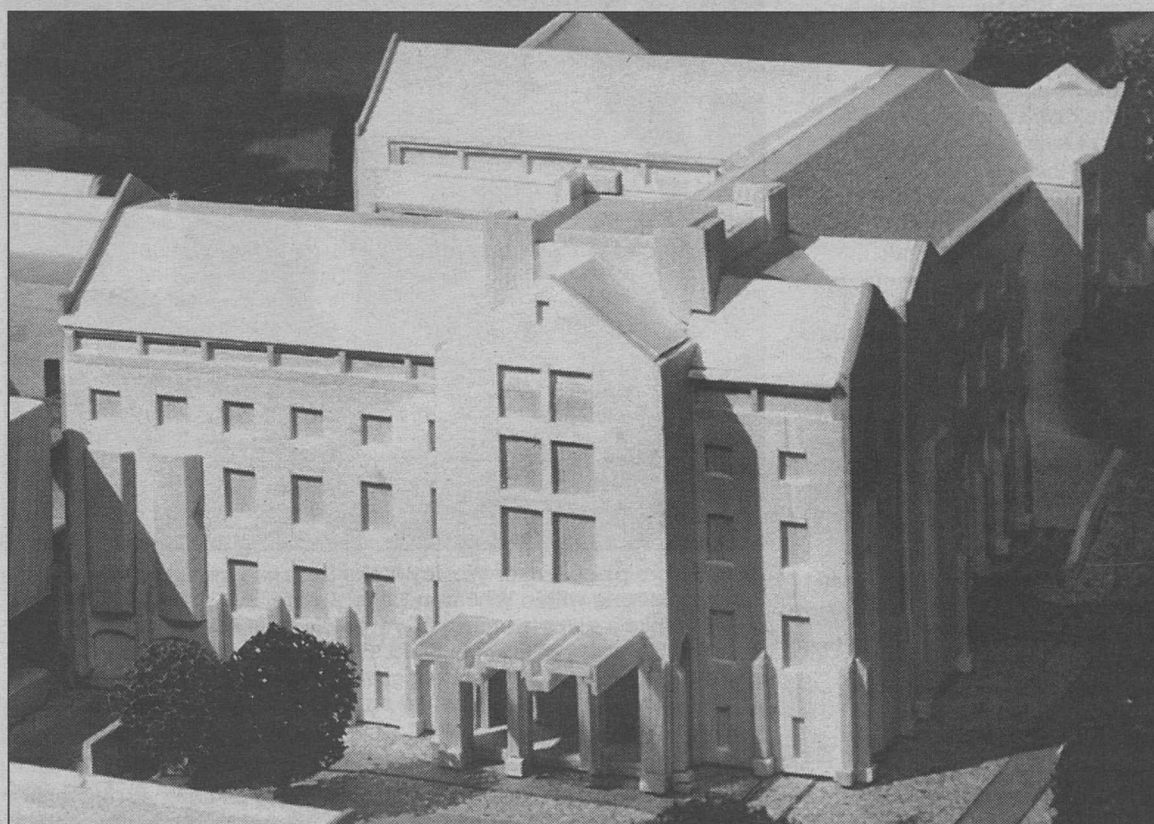
University’s commitment to become a world-class provider of career-long learning opportunities to the management profession,” Chancellor Mark S. Wrighton said, “and it’s especially fitting that the building be known as the Charles F. Knight Executive Education Center, since Chuck Knight, one of the nation’s most successful executives, has for many years provided crucial support and leadership to the University and the Olin School.”

Knight chairs the school’s National Council, an advisory group that oversees strategic planning, and, in 1980, he served as chairman of the task force that recommended further development and improvement of the school. He also was instrumental in strengthening the endowment during a campaign in the 1980s. In 1993, he received the school’s Dean’s Medal. From 1977 to 1990, Knight was a University trustee, and, in 1996, he was awarded an honorary doctor of science degree in recognition of his service to the University and the community.

Last year, Knight and Emerson Electric Co. made a combined \$15 million challenge grant to the business school. Emerson Electric and Knight will match every dollar committed to the school, one to one, up to \$15 million.

Emerson Electric Co., a global manufacturer of a wide range of electronic, electrical and related

See Center, page 6



An architect's model shows the planned Charles F. Knight Executive Education Center to be built on the north side of the Hilltop Campus. Construction is scheduled to begin early next year.

Linking memory and space

Architecture conference set here

By ANN NICHOLSON

The relationship between architecture and memory will be examined at the Association of Collegiate Schools of Architecture West Central Regional Conference, to be hosted by the School of Architecture Oct. 2-4.

Assistant Professors Eleni Bastea and Gia Daskalakis (the latter directs the undergraduate

program in architecture) are co-chairing the multidisciplinary conference, which is expected to include 65-70 presentations of papers and design projects. Themes range from “public memory” to “art and memory” to “cultural memory.” The presentations will examine topics from both international and historical perspectives and include analysis of commemorative architecture,

See Architecture, page 2

High praise

Tyson cited for outreach

By TONY FITZPATRICK

The notion of a “field day” often conjures up a frenetic free-for-all where students romp and chaperones stomp trying to keep up with recalcitrant charges running amok in the woods while a guide lovingly describes a creature or habitat to stone-cold ears.

But that’s not the way field days are conducted at Tyson Research Center. In fact, Tyson’s Field Science Program, beginning another year of outreach in October, was recognized last month, along with the St. Louis Zoo, for exemplary work in outreach, alignment of programs with curriculum, and learning assessment by the St. Louis School District’s School Partnership Program (SPP).

St. Louis city schools have 14 different programs to choose from

at Tyson, ranging from bird-banding to weather and the seasons, geology, bats and predator-prey relations. There is also a program on discovering nature through the arts.

The Field Science Program will present programs to more than 100 SPP-sponsored student groups from October through May, involving more than 2,500 children in all.

The SPP recognized Tyson and the zoo on Aug. 20, when Janice Starke, director of the Field Science Program, and Lorene Reid, a teacher at Fanning Community Education Center, addressed 52 people from diverse organizations in St. Louis participating in the SPP. Representatives from the National Park Service, the Black Repertory Theater and The Saint Louis Art Museum, among others, learned how the Tyson Field Science Program and the zoo

connect their topic offerings to national, state and St. Louis School District science curricula and how they assess student learning so that field trips directly connect to school work.

A summer-long project this year focused on assessments and culminated in a publication Reid authored titled “Tyson Field Science Programs, Standards, Curriculum and Assessments: What the Data Tell Us.” The summer work was coordinated by the SPP through funding from the National Science Foundation/Urban Systemic Initiative (NSF/USI), one of several NSF programs designed to improve learning in math, science and technology.

“The alignment of curriculum and assessment are outcomes delineated by NSF/USI,” Starke said. “We’ve connected the science curriculum to specific topics at

See Tyson, page 6

Weekend of home openers

brings Bears key victories

By KEVIN BERGQUIST

One of the busiest weekends of fall sports on the Washington University campus produced several Bear wins and a few notable milestones.

The volleyball team improved to 8-0 on the season with a sweep of its WU Classic in the Field House. The Bears, who have yet to lose a game this season, gave head coach Teri Clemens her 500th career victory Saturday when they topped the University of Wisconsin-Oshkosh in three games.

The senior trio of Jenny Cafazza, Jennifer Martz and Meg Vitter were named to the all-tournament team, with Cafazza

earning Most Valuable Player honors after hitting a team-high .450 during the tournament.

The all-time winningest coach in NCAA volleyball history (.871 winning percentage), Clemens is serving her last season after announcing her resignation effective at the end of the season. She has her Bears in the hunt for an eighth national championship in 10 years.

The football Bears (2-0) notched their seventh consecutive home victory with a come-from-behind win over Wheaton College (Ill.) at Francis Field. Trailing by as many as 21 points in the second quarter, the team rallied with 18

See Bears, page 2



Autumn air The crisp fall weather entices many outside to read and study, including freshmen Derek Ho and Alison Schewe, enjoying the shade in Brookings Quadrangle.

Bears

Weekend of home openers brings victories

— from page 1

fourth-quarter points to beat the Crusaders.

Sophomore kicker Wesley Flake's 27-yard field goal with 10 seconds remaining sealed the Bears' biggest comeback under head coach Larry Kindbom (WU rallied from a 17-point deficit versus Rose-Hulman in 1994).

The Bears were outgained in total yardage 535 to 346 yards but kept Wheaton off the scoreboard on eight of the Crusaders' final nine possessions. In contrast, the Bears scored all five times they moved the ball inside Wheaton's 20-yard line (four touchdowns, one field goal).

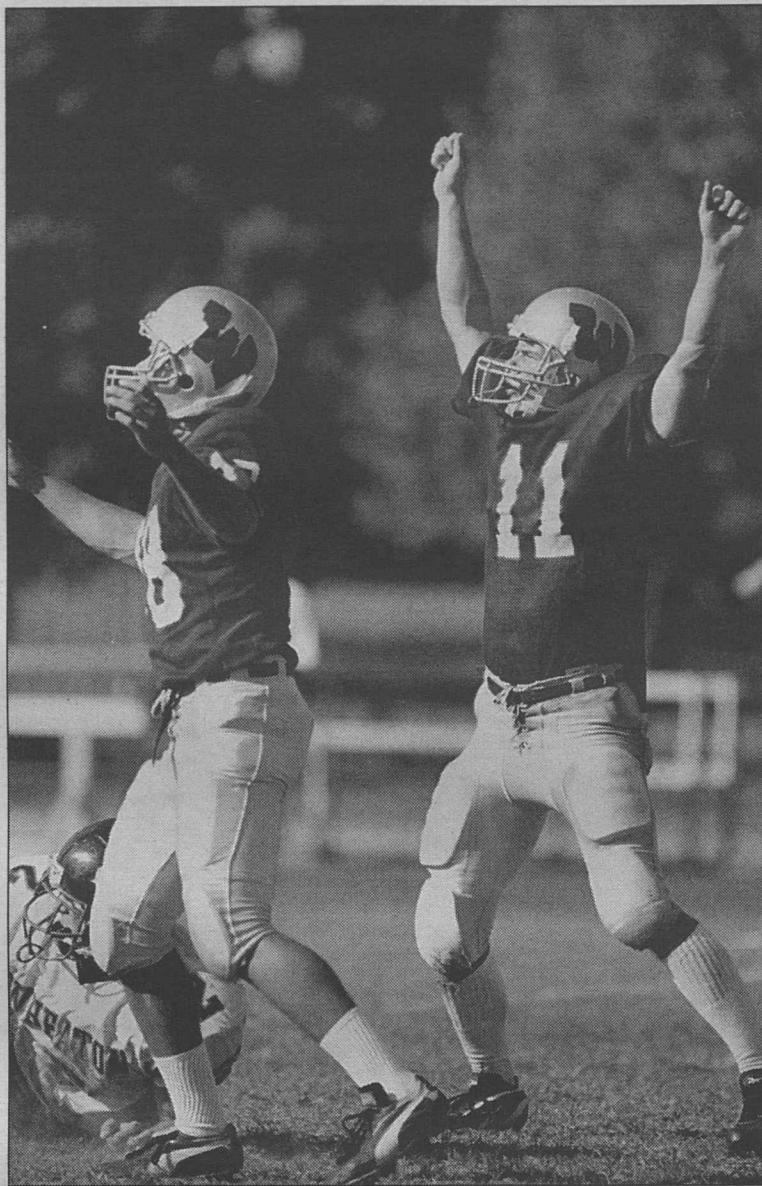
The men's and women's cross country teams both swept through the field of the WU Invitational Saturday at St. Louis' Tower Grove Park. Senior Emily Richard (18 minutes, 35.08 seconds) emerged victorious on the women's side, while junior Tim Julien (25:54.23) topped the men's race.

The women swept the top three spots in the race with senior Eileen McAllister (19:12.65) and sophomore Susan Chou (19:17.37) finishing second and third, respectively. Casey Stahlheber placed third on the men's side (26:39.45) and Nathan Hershberger (27:03.79) was fifth.

The women's soccer team (4-1) continues to throttle its opponents. The Bears, ranked fourth in the latest National Soccer Coaches Association of America (NSCAA) Division III poll, outscored their opposition 21-1 in three games last week.

The Bears won at Principia College (6-1) before returning home to post victories over St. Mary's College (5-0) and Wittenberg University (10-0).

The dynamic scoring duo of senior forward Lori Thomas and junior linemate Rachel Sweeney



Sophomore place-kicker Wesley Flake (left) and senior holder Josh Lauer celebrate with a Wheaton College defender sprawled at their feet as Flake's game-winning 27-yard field goal sails through the uprights Saturday at Francis Field. Flake's kick, which came with 10 seconds remaining in the game, gave the Bears a come-from-behind 31-28 victory. The Bears, now 2-0 on the season, had trailed 21-0 in the first half.

combined to score 12 goals (six apiece). Sweeney, a returning NCAA first-team All-American who scored two goals in each of the Bears' three victories during the week, has scored in four of the squad's five games in 1998.

Thomas and Sweeney, the program's most prolific scorers of all time, have scored a goal in the

same game 17 times during their 44-game career playing together, including all three games last week.

The men's soccer team was not so lucky, falling to regional foe Rhodes College 1-0 Saturday in Memphis, Tenn. The Bears (2-2) are ranked 16th in the latest NSCAA Division III national poll.

Renowned architects appearing in series

From the links between the environment and architecture to the relationship between memory and architecture, the School of Architecture's 44th annual Monday Night Lecture Series promises a stellar lineup of renowned national and international architects discussing diverse themes.

The series will kick off at 7 p.m. Monday, Sept. 21, with a lecture by landscape architect Angela Danadjieva in Steinberg Auditorium. Danadjieva, an environmental designer with the San Francisco-based Danadjieva & Koenig Associates, will discuss "Environmental Response."

The series also will include keynote speakers for the Association of Collegiate Schools of Architecture West Regional Conference "Memory and Architecture," which is being hosted by the architecture school Oct. 2-4. The keynote addresses, to be delivered in Steinberg Auditorium, are:

• Friday, Oct. 2 — Architecture historian and theorist **Jennifer Bloomer** will lecture on "Pale Houses, Silent Shadows" at 1:45 p.m. Bloomer is a professor of architecture and director of the Post-professional Graduate Program and the Laboratory for Experimental Design at Iowa State University.

Diane Ghirardo, a professor at the University of Southern California School of Architecture, will speak on "Place and Identity in Los Angeles" at 5:30 p.m. Ghirardo is the author of several books, including "Architecture After Modernism."

• Saturday, Oct. 3 — **Jo Noero**, the Ruth and Norman Moore Professor of Architecture and director of the Graduate Program in Architecture, will discuss "Myth and Memory" at 1:30 p.m.

Stanford Anderson, a professor of history and architecture and head of the Department of Architecture at the Massachusetts Institute of Technology, will

discuss "History and Memory" at 6:45 p.m.

The student-run series will continue with:

• Friday, Oct. 23 — **Carol Ross Barney**, an architect at the Chicago-based Ross Barney & Jahnkowski Inc., discussing her recent work at 4:30 p.m. in Room 116 Givens Hall. The lecture is co-sponsored by the St. Louis Chapter of the American Institute of Architects.

• Monday, Oct. 26 — **Neil M. Denari**, a principal with the Los Angeles-based Cor-Tex Architecture and director of Southern California Institute of Architecture, on "Difference and Repetition" at 7 p.m.

• Thursday, Oct. 29 — **Will Bruder**, an award-winning self-trained architect with Arizona-based Will Bruder Associates, discussing his recent work at 7 p.m. in Room 100 Brown Hall.

• Monday, Nov. 2 — **Esa Laaksonen**, the Ruth and Norman Moore Visiting Professor of Architecture and editor-in-chief of the Finnish architectural review magazine, *Arkkitiehti*, discussing "On Time and Architecture" at 7 p.m.

• Monday, Nov. 16 — **Beatriz Colomina**, an architectural historian, theorist and associate professor at Princeton University, delivering the Harris Armstrong Endowed Lecture titled "The Gift: Reflections on the Work of Charles and Ray Eames" at 7 p.m.

• Thursday, Nov. 19 — **Patricia and John Patkau**, of the Edmonton and Vancouver-based firm Patkau Architects, discussing their recent work at 7 p.m.

Sponsored by the architecture school and Student Union, the lectures are free and open to the public and held in Steinberg Auditorium unless otherwise noted. The lecture committee includes graduate students Monica Moore, Douglas Beck, Catherine Ho and Jenny Gossow. For more information, call 935-6200.

News Briefs



Campus quiz: This rhythmic pattern adorns which campus structure? Answer below.

Master class

Have a yen to observe the masters at work? The opportunity is at hand: This fall, the School of Art's Fine Arts Institute will present a series of three workshops at the Gallery of Art in Steinberg Hall. Using masterworks from the Gallery's collection as starting points, three contemporary artists will put paint to canvas using the same techniques employed by the original creators. On Oct. 3, Margery Imster will discuss Matisse's "Still Life With Oranges"; on Oct. 10, John Sarra will discuss Corot's "The Evening Star"; and on Oct. 17, Matt Anderson will focus on Abraham Rittner's "Job." Each class costs \$15 and takes place



from 1:30 to 3 p.m. For more information or to register, call 935-4643.

Diabetes lecture

For persons with diabetes and those interested in learning more about the disease, the Diabetes Prevention Program (DPP) at the School of Medicine is hosting a free lecture titled "The Prevention and Treatment of Diabetic Retinopathy" at 6:30 p.m. Sept. 17 in the third floor auditorium of St. Louis Children's Hospital. The speaker will be Henry J. Kaplan, M.D., professor of ophthalmology and visual sciences. Diabetic retinopathy, a potentially blinding complication of diabetes that damages the eye's retina, affects half of the 14 million Americans with the disease.

There will be free parking at BJC and medical school garages for the lecture. For more information, call 454-4381 or 454-2720.

Did you know?

In 1869, the law department at Washington University, now the School of Law, became the first chartered law school in the United States to admit women. The nation's first female law students, Lemma Barkeloo and Phoebe Couzins, were also the first women admitted to the University as a whole. Couzins was Missouri's first woman law graduate and the country's first woman marshal. Barkeloo became Missouri's first woman lawyer and the first woman in the United States to try a case in court.

Answer: This elegant geometry adds a decorative touch to the Psychology Building's south facade.

"News Briefs" includes short items on a wide range of subjects, typically information about resources, benefits and opportunities available to faculty and staff. Readers are invited to submit briefs, which will be used as space permits, to Betsy Rogers, Campus Box 1070, or by e-mail, Betsy_Rogers@aismail.wustl.edu. Please include your name and phone number.

Architecture

Conference explores links between memory and space

— from page 1

architecture in literature and architecture created in politically or culturally charged settings.

"The theme is meant to examine the role of memory in the making, understanding and teaching of architecture," Bastea said. "While architecture provides the stage on which we enact our lives, memory creates a special relationship with space, holding on to the essence of it, the best and the worst."

Faculty from Australia, Brazil, Canada, Germany and the United States are expected to attend the conference. Individual presentations range from a monument for the bicentennial of the French Revolution to "remnants of slave

spaces" to a pilgrimage through Old and New Jerusalem. All conference sessions are open to the campus community. For more information, call 935-6200.

The four keynote speeches, which are free and open to the public, will be delivered in conjunction with the architecture school's Monday Night Lecture Series.

Jo Noero, the Ruth and Norman Moore Professor of Architecture and director of the Graduate Program in Architecture, is among the keynote speakers. Other University faculty giving presentations include Eric Mumford, Ph.D., assistant professor of architecture; Jacqueline Tatom and Sheona Thomson, visiting assistant professors of architecture; Lutz Koepnick, Ph.D., assistant professor of Germanic languages and literatures in Arts and Sciences; and Harriet Stone, Ph.D., associate professor of Romance languages and literatures in Arts and Sciences.

Record

Washington University community news

News & Comments

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Medical School Update



A sun and fun welcome From left, Ray Wee, Felix Feng, Carrie Cizauskas, John Martini and Mindy Lo get to know each other Friday, Sept. 11, at the annual welcoming picnic/pool party given for first-year students by William A. Peck, M.D., executive vice chancellor for medical affairs and dean of the School of Medicine.

Dennis Choi chosen as president-elect of the Society for Neuroscience

Neurologist is expert on mechanisms of nerve cell injury

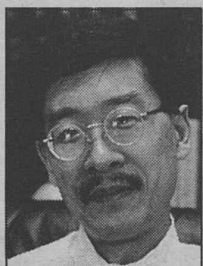
Dennis W. Choi, M.D., Ph.D., the Andrew B. and Gretchen P. Jones Professor and head of neurology, will become president-elect of the Society for Neuroscience in November.

With more than 25,000 members, the Society for Neuroscience is the world's largest association of scientists dedicated to understanding the brain, spinal cord and peripheral nervous system.

"I am deeply honored to be elected to lead this distinguished scientific society as we move into the next millennium," Choi said. "Understanding how the brain works, in health and disease, is fundamental to our pursuit of self-awareness and knowledge and to our hopes for treating the many patients who suffer from diseases of the nervous system."

Choi was born in Ann Arbor,

Mich., attended Harvard College, and received both a medical degree and a doctorate in pharmacology from Harvard University in 1978. After residency and fellowship training in neurology at Harvard, he joined the neurology faculty at Stanford University. In 1991, he came to Washington University, where he also directs the Center for the Study of Nervous System Injury and the McDonnell Center for Cellular and Molecular Neuroscience.



Choi: renowned neurologist

Internationally known for his research on the mechanisms of nerve cell injury, Choi has received numerous awards. These include the 1992 Wakeman Award for Neurosciences Research, the 1994 Silvio O. Conte Decade of the Brain Award from the National Foundation for Brain

Research and the 1997 Ho-Am Prize in Medical Science from the Samsung Foundation.

Choi previously has served as program committee chair, councilor and treasurer of the Society for Neuroscience. He now chairs the U.S. Committee to the International Brain Research Organization. He also sits on the scientific advisory boards of the Max Planck Institute in Heidelberg, the Korea Institute for Advanced Study, the Hereditary Disease Foundation, the Alzheimer's Disease Cooperative Study Group, the Parkinson's Study Group and the German Stroke Research Consortium. He is a member of the National Advisory Neurological Disorders and Stroke Council of the National Institutes of Health and founding co-editor of the journal *Neurobiology of Disease*.

Grubb becomes American Board of Neurological Surgery chairman

Robert L. Grubb Jr., M.D., the Herbert Lourie Professor of Neurological Surgery and professor of radiology, has been named the 40th chairman of the American Board of Neurological Surgery. He will serve a one-year term.

Established in 1940, the board certifies neurological surgeons by reviewing applicants' educational training and practice qualifications and giving written and oral exams. It also strives to improve training opportunities and standards in neurosurgical residency programs throughout the United States. Grubb has served as a board member for six years.

Grubb also has been elected 49th president of the Southern

Neurosurgical Society. He will serve for one year. Henry G. Schwartz, M.D., the August A. Busch Jr. Professor Emeritus of Neurological Surgery and lecturer in that department, helped found the society in 1949 and served as president from 1953 to 1954. Membership now includes 500 neurosurgeons.

Grubb is a neurosurgeon at Barnes-Jewish and St. Louis Children's hospitals and a consultant in neurological surgery at the John Cochran Veterans Administration Hospital.

He is author or co-author of 116 peer-reviewed papers and book chapters. In his research, he uses positron emission tomography to study cerebral blood flow and metabolism in patients with carotid artery occlusion, stroke, head injury and subarachnoid hemorrhage. In 1990, this work earned him the Grass Prize for Research from the Society of Neurological Surgeons.

Wente to study pores that regulate traffic

Susan R. Wente, Ph.D., associate professor of cell biology and physiology, has received two grants totaling \$2 million from the National Institute of General Medical Sciences.

A four-year \$1.2 million grant will allow her to continue studying how cells export material from the nucleus. With a four-year \$798,867 grant, Wente will examine the formation of nuclear pores where this transport occurs.

"We want to understand how cells exchange information between their two main compartments: the nucleus where genetic material is stored and the cytoplasm where many cellular activities are carried out," Wente said. The findings could have implications for treating viral infections, cancer and other diseases that require movement of factors between the two compartments.

Cellular cargo is shuttled to and from the nucleus through holes in

Blood pressure, worsening heart function focus of study

Victor G. Dávila-Román, M.D., associate professor of medicine, has received a four-year \$1.4 million grant from the National Heart, Lung and Blood Institute to study factors that lead to heart damage in people with thickened heart muscle due to high blood pressure.

High blood pressure and other conditions make the left ventricle, the main pumping chamber of the heart, work abnormally hard. This can cause muscle cells in the ventricle to plump up, producing a thick wall known as left ventricular hypertrophy (LVH). Although people with LVH can remain symptom-free for some time, the condition can set the stage for declining heart function and death.

Dávila-Román will investigate factors that could cause deteriorating heart function in people with high blood pressure and LVH and test whether heart medications reverse the damage. "Animal research suggests that drugs that only control high blood pressure may not adequately address abnormalities that develop with LVH," he said. "We hope to determine whether this is true in humans."

The study will involve participants between 20 and 80 years of age who will undergo echocardiographic evaluations of heart anatomy and function. Results in 44 volunteers with high blood pressure, LVH and normal heart function will be compared with

those in eight normal volunteers and eight others who have high blood pressure, LVH and a moderate decline in function of the left ventricle.

Reduced blood flow to heart tissue could lead to declining heart function in people with hypertension and LVH. This might occur because coronary arteries at the heart surface might not carry enough blood through the thickened heart muscle, particularly under conditions of stress.

In collaboration with Robert J. Gropler, M.D., associate professor of radiology, Dávila-Román will use positron emission tomography (PET) images to evaluate heart blood flow in volunteers at rest and under a condition of stress.

The pumping action of volunteers' hearts also will be evaluated by Dávila-Román and Michael K. Pasque, M.D., professor of cardiothoracic surgery. They will obtain magnetic resonance images of heart contractile function in volunteers at rest and during administration of the testing drug dobutamine.

Dávila-Román suspects that the year-long evaluation will reveal that several factors underlie the increased cardiovascular risk of people with high blood pressure and LVH. "We hope to tease out which factor is most important and whether patients need more than one of these heart abnormalities to be at increased risk of developing heart failure," he said.

Mark Long to market inventions, foster links with industry

Mark Long has been named business development manager in the Center of Technology Management at Washington University.

In this position, Long will be responsible for marketing inventions, promoting licensure of patented items and promoting University-industry collaborations on research products for the clinical and biotechnology industries.

Long comes to the University after holding sales, marketing and technical service positions at Sigma Diagnostics, Baxter Diagnostics and Coulter Corp. He

has a master's degree in molecular biology and more than 16 years experience in the clinical marketplace.

"Washington University is a gold mine of creativity, invention and research," Long said. "My goal is to enhance clinical diagnostic development and promote biotechnology methodology in the clinical market by facilitating rapid integration of new products and ideas. I want to maintain strong relationships with leaders in the diagnostic industry to assist them in obtaining the latest technological advances."

The findings could have implications for treating viral infections, cancer and other diseases.

with two pore proteins as it recycles to the cytoplasm. Previous work in her laboratory has shown that Kap95p binds a repeated sequence within the two pore proteins. Wente will analyze this interaction using mutated versions of the pore proteins and determine whether other transport factors bind similar repeats.

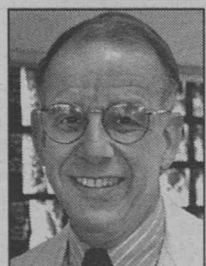
In the second grant, Wente will

study the initial formation of nuclear pores and the location of proteins within the final structure. She will generate yeast containing abnormal pores to determine how their underlying protein problems alter the rate of pore formation or their ability to transport material. To visualize the abnormalities, she will use yeast that contain one of several pore proteins with a fluorescent green protein attached.

The fluorescence broadcasts the location of individual pore complexes so that cells with fewer pores, unusual clusters of pores or other abnormalities can be visually identified. Wente already is analyzing one mutant

pore protein identified in this manner that results in portals with an altered outer opening.

The information gained on the nuclear pores of yeast cells will allow her to search for proteins with similar functions in vertebrate cells. "Our long-range holy grail is to determine what triggers the initial pore formation," Wente said.



Grubb: Neurological surgeon

University Events

World premiere Spalding and Rockwell Gray appear at Edison

BY LIAM OTTEN

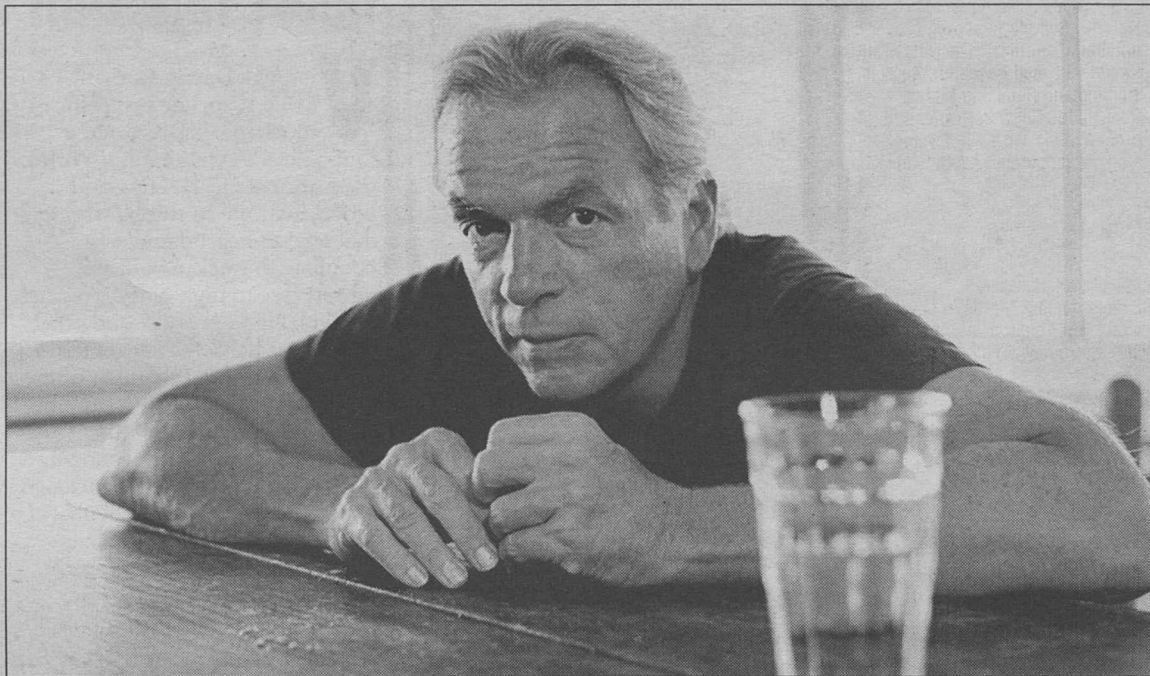
For close to two decades, Spalding Gray's wry and unflinchingly honest monologues have chronicled the ups and downs of his famously rootless life.

Gray returns to Edison Theatre this fall for a pair of new shows, including a world premiere Oct. 2 of "Gray on Gray: A Lifelong Conversation" with his brother, Rockwell Gray, Ph.D., a lecturer in the Department of English in Arts and Sciences. On Oct. 3, Spalding Gray will present the St. Louis premiere of his newest work in progress, "Morning, Noon & Night," which describes a single day in the life of the author's young family.

Both performances, part of Edison Theatre's OVATIONS! Series, begin at 8 p.m.

In "Gray on Gray: A Lifelong Conversation," Spalding and Rockwell explore a lifetime of shared history, trading riffs and stories in a kind of fraternal point-counterpoint. "In this performance, we meet to distill the circling, exploring talk we've made together for over half a century," Rockwell said.

Evy Warshawski, director of Edison Theatre, noted that this will be Spalding Gray's fifth visit to the University in nine years. "Spalding has developed quite a following in St. Louis," she said. "He considers us one of his second homes — after all, he has



Monologist Spalding Gray returns to Edison Theatre Oct. 2 and 3.

family here — and we're fortunate to have that kind of continuity."

Gray's previous visits have included performances of "Interviewing the Audience"; "Gray's Anatomy"; "Monster in a Box"; and, most recently, "It's a Slippery Slope," which chronicled the author's break-up with longtime collaborator Renee Shafransky and his subsequent relationship with Kathie Russo.

"Morning, Noon & Night" finds the author enjoying a newfound stability with Kathie, their two young sons, Forrest and Theo, and

Spalding Gray

Where Edison Theatre

When Oct. 2 and 3

Tickets \$23, available at Edison Theatre Box Office, 935-6543, or Metro Tix, 534-1111. Call for discounts.

Kathie's 11-year-old daughter, Marissa. Set over the course of a single day, the work is grounded in a sense of the way children change

not only one's external life but the internal life as well, touching on everything from spilled cereal to the family's move from hectic Manhattan to the quiet of New York's Sag Harbor. Like James Joyce in "Ulysses" or Thornton Wilder in "Our Town," Gray seeks to uncover "the macrocosm within the microcosm."

Gray's earlier monologues include "Sex and Death at Age 14"; "Booze, Cars and College Girls"; and the OBIE Award-winning "Swimming to Cambodia," which was adapted as a film by Jonathan

Demme. Other film credits include an adaptation of "Gray's Anatomy" directed by Steven Soderbergh and roles in Roland Joffe's "The Killing Fields," David Byrne's "True Stories," Soderbergh's "King of the Hill" and Ron Howard's "The Paper."

Gray has appeared in shows both on and off Broadway, including the revival of "Our Town" and the New York premiere of Sam Shepard's "Tooth of Crime." His eight books include several monologue adaptations and the novel "Impossible Vacation." Gray has received a Guggenheim Fellowship and grants from the National Endowment for the Arts and The Rockefeller Foundation.

Rockwell Gray earned a doctorate in social thought from the University of Chicago. His books include "A Century of Enterprise: St. Louis 1894-1994"; "The Imperative of Modernity: An Intellectual Biography of Jose Ortega y Gasset"; and "Folktales of Chile." His book reviews appear regularly in the Chicago Tribune, and he also has written for St. Louis Magazine, the St. Louis Post-Dispatch and The Missouri Historical Society, among others. He currently teaches creative non-fiction at both Webster University and Washington University.

Tickets are \$23 and are available at the Edison Theatre Box Office, 935-6543, or through MetroTix, 534-1111. Call for discounts. For more information, call 935-6543.

'Vertigo' • Hispanic Heritage • Shuttle Astronaut • Beethoven

Exhibitions

"Early Modern European and American Art." Through Oct. 25. Upper Gallery 2, Gallery of Art. 935-4523.

"Magnificent Rome: A 16th-Century View." Through Oct. 25. Lower Gallery 1, Gallery of Art. 935-4523.

"19th Century American Art." Through Dec. 13. Lower galleries 3 and 4, Gallery of Art. 935-4523.

"The Realist Vision: 19th-Century European Art." Through Oct. 25. Lower Gallery 2, Gallery of Art. 935-4523.

"Visible Poetry: A Survey of Illustrated Books." Through September. Special Collections, fifth floor, Olin Library. 935-5495.



Films

Thursday, Sept. 17

2:30 p.m. Russian dept. film. "Anna Karenina." Room 219 S. Ridgley Hall. 935-5517.

Friday, Sept. 18

7 and 9:30 p.m. Filmboard Feature Series. "The Big One." (Also Sept. 19, same times, and Sept. 20, 7 p.m.) Cost: \$3 first visit; \$2 subsequent visits. Room 100 Brown Hall. 935-5983.

Midnight. Filmboard Midnight Series. "Rocky Horror Picture Show." (Also Sept. 19, same time, and Sept. 20, 9:30 p.m.) Cost: \$3 first visit; \$2 subsequent visits. Room 100 Brown Hall. 935-5983.



Tuesday, Sept. 22

7 and 9 p.m. Filmboard Foreign and Classic Series. "Dirty Harry." Cost: \$3 first visit; \$2 subsequent visits. Room 100 Brown Hall. 935-5983.

Wednesday, Sept. 23

6 p.m. Japanese Film Series. "Tokyo Pop." Room 219 S. Ridgley Hall. 935-5110.

Friday, Sept. 25

7 and 9:30 p.m. Filmboard Feature Series. "The Ice Storm." (Also Sept. 26, same times, and Sept. 27, 7 p.m.) Cost: \$3 first visit; \$2 subsequent visits. Room 100 Brown Hall. 935-5983.

Midnight. Filmboard Midnight Series. "Vertigo." (Also Sept. 26, same time, and Sept. 27, 9:30 p.m.) Cost: \$3 first visit; \$2 subsequent visits. Room 100 Brown Hall. 935-5983.

Lectures

Thursday, Sept. 17

Noon. Genetics Seminar. "Rnase P RNA in Archaea — The Reports of My Death Are Greatly Exaggerated." James Brown, N.C. State U. Room 823 McDonnell Medical Sciences Bldg. 362-3365.

Noon. Visual Science Seminar Series. "Heat Shock Proteins and Their Antibodies in Glaucoma." Martin B. Wax, assoc. prof. of ophthalmology and visual sciences. East Pavilion Aud., Barnes-Jewish Hospital Bldg. 362-3365.

4 p.m. Chemistry Seminar. "Mechanisms of DNA Damage by Leinamycin and Other Sulfur-containing Antitumor Antibiotics." Kent Gates, prof. of chemistry, UM-Columbia. Room 311 McMillen Lab. 935-6530.

4 p.m. Earth and planetary sciences colloquium. "Early Life on Earth: The Rock Record." Maud M. Walsh, asst. prof., Research Institute for Environmental Studies, LSU. Room 362 McDonnell Hall. 935-5603.

4 p.m. Performing arts lecture. "Deconstructing 'Minstrels Past': A Case Study in Identity, Resistance and Survival Through Performance." Robin Marie Wilson, visiting artist. Room 102 Eliot Hall. 935-5690.

Friday, Sept. 18

8 a.m. Mallinckrodt Institute of Radiology Radiation Oncology Center lecture. The Norman K. Probstin Oncology Lecture. "Brachytherapy in Localized Carcinoma of the Prostate." Dattatreya N. Nori, chair of radiation oncology, N.Y. Hospital-Cornell Medical Center. Scarpellino Aud., first floor, Mallinckrodt Institute of Radiology, 510 S. Kingshighway Blvd. 362-9713.

9:15 a.m. Pediatric Grand Rounds. "Some Philosophical Musings About Human Origins: Are We the Missing Link?" Glenn C. Conroy, prof. of anatomy and neurobiology and of anthropology. Clopton Aud., 4950 Children's Place. 454-6006.

Noon. Cell biology and physiology seminar. "Conformational Changes in Proteins: How Small Is Big Enough." Daniel E. Koshland Jr., prof. of molecular and cell biology, UC-Berkeley. Room 426 McDonnell Medical Sciences Bldg. 362-6060.

1 p.m. Thesis defense. "Cloning and Characterization of E-Sarcoglycan, a Widely Distributed Homologue of the Gene Mutated in Limb-Girdle Muscular Dystrophy 2D." Audrey Ettinger, neuroscience program. Room 928 McDonnell Medical Sciences Bldg. 362-3365.

2 p.m. Performing arts lecture. "Treemount: An Interaction of Breath, Body and Sound." Robin Marie Wilson, visiting artist, and Ingrid Monson, asst. prof. and the Harbison Faculty Fellow in music. Tietjens Rehearsal Hall. 935-4841.

7:30 p.m. St. Louis Astronomical Society lecture. "Up, Up and Away — The Solo Spirit Balloon Flight." Judd Bowman, systems analyst, earth and planetary sciences dept. Cosponsored by earth and planetary sciences dept. and NASA's Missouri Space Grant Consortium. Room 162 McDonnell Hall. 935-4614.



'From Argentina to the Coral Sea'

Assembly Series talk highlights faculty, student Solo Spirit research

Raymond E. Arvidson, Ph.D., professor and chair of earth and planetary sciences in Arts and Sciences, and four of his student researchers will give a special Assembly Series presentation titled "The Solo Spirit Mission: From Argentina to the Coral Sea" at 11 a.m. Wednesday, Sept. 23, in Graham Chapel. The event is free and open to the public.

Arvidson and the student researchers were directly involved in adventurer Steve Fossett's August attempt to fly solo in a balloon around the world, serving as key members of Fossett's mission control team.

Arvidson served as mission control science coordinator for the Fossett flight and for the payload aboard the flight. A scientist who has made significant contributions to National Aeronautics and Space Administration (NASA) missions to Mars

and Venus, Arvidson said that the payload was prepared as a prototype of the kind of instrumentation NASA may eventually fly into the atmosphere of Mars or Venus on a robotic balloon called an aerobot. The payload consisted of instruments to measure position, temperature, pressure, vertical wind velocity and sky radiance. It is because Fossett carried this payload that his flight qualified as a mission.

Arvidson, a 25-year NASA veteran, directs NASA's Geoscience Node, located on the University campus. It is the chief storehouse and distribution center for NASA-derived data from the surfaces and interiors of Mercury, Venus, the Moon, Mars and the larger satellites

of the outer planets. He played a significant role in the Viking and Magellan missions. He is currently an interdisciplinary scientist on the Mars Global Surveyor and the deputy principal investigator for the

Athena Mars 2001 Rover Mission. He has published in numerous journals and magazines, including Science, Planetary and Space Sciences, Geology and Scientific American.

Arvidson earned a bachelor's degree in the geological sciences from Temple University in 1969 and master's and doctorate degrees in geological sciences from Brown University in 1971 and 1974, respectively. He joined Washington University in 1974.

Assembly Series

Where Graham Chapel

When 11 a.m. Wednesday, Sept. 23

Admission Free and open to the public

Monday, Sept. 21

Noon. Neurology and neurological surgery lecture. "Ion Channel Aggregation and Calcium Influx: An Alternative Pathogenic Hypothesis for the Dystrophinopathies." George Carlson, assoc. prof. of physiology, Kirksville College of Osteopathic Medicine. Schwarz Aud., First Floor Maternity Bldg. 362-3365.

2 p.m. Thesis defense. "Comparative Mapping and Sequencing of Human Chromosome 7 and Mouse Chromosome 5." Udaya DeSilva, molecular genetics program. Room 521 Medical Library. 362-3365.

4 p.m. Biology seminar. "Scientists and Science Education: Creating Effective Partnerships." Cynthia Moore, outreach coordinator and lecturer in biology, and Victoria May, outreach director in biology. Room 322 Rebstock Hall. 935-5348.

7 p.m. School of Architecture Monday Night Lecture Series. "Environmental Response." Angela Danadjieva, landscape architect, Danadjieva & Koenig Associates, San Francisco. Steinberg Aud. 935-6200. (See story on page 2.)

Tuesday, Sept. 22

Noon. Molecular Microbiology and Microbial Pathogenesis Seminar Series. "Regulatory Circuits Controlling Synthesis of a 'Simple' Photosystem." Carl E. Bauer, the Clyde Culbertson Professor of Biology, Indiana U. Cori Aud., 4565 McKinley Ave. 935-4278.

5:30 p.m. Molecular biophysics student-hosted seminar. "Applications of the Poisson-Boltzmann Equation to Nucleic Acids, Membranes and Proteins: Success and Failure." Barry Honig, prof. of biochemistry and molecular biophysics, Columbia U. Erlanger Aud., McDonnell Medical Sciences Bldg. 362-3365.

Wednesday, Sept. 23

6:30 a.m. Anesthesiology Grand Rounds. "Impressions from Teaching Anesthesia in Africa." Carl H. Nielsen, assoc. prof. of anesthesiology. Wohl Hospital Bldg. Aud., 4960 Children's Place. 362-6978.

8 a.m. Obstetrics and Gynecology Grand Rounds. "Medicaid Policy and Obstetrics: Making the System Work for Your Patient." Catherine S. Todd, chief resident. Clopton Aud., 4950 Children's Place. 362-1016.

11 a.m. Assembly Series presentation. "The Solo Spirit Mission: From Argentina to the Coral Sea." Raymond E. Arvidson, prof. and chair of earth and planetary sciences. Graham Chapel. 935-5285.

12:30 p.m. National Hispanic Heritage Month Celebration. "Biodiversity, the Global Environment and the New Millennium" Peter H. Raven, the Engelmann Professor of Botany and dir., Missouri Botanical Garden. Third Floor Aud., St. Louis Children's Hospital. 362-8425 or 362-6622.

1 p.m. Thesis defense. "Overactivation and Upregulation of Signal Transducer and Activator of Transcription Factor 1 (STAT1) in Asthma." Deepak Sampath, molecular cell biology program. Room 8841 Clinical Science Research Bldg. 362-3365.

3:45 p.m. Physics colloquium. "Cosmic Ray Proton and Helium Spectra at High Energies." Michael L. Cherry, prof. of physics and astronomy, LSU. Room 204 Crow Hall. 935-6276.

4 p.m. Biochemistry and molecular biophysics seminar. "Integrating Three Dimensional Structure Information in Genome Analysis." Barry Honig, prof. of biochemistry and molecular biophysics, Columbia U. Cori Aud., 4565 McKinley Ave. 362-0261.

4 p.m. Bio-organic chemistry seminar. "Design Synthesis and Characterization of Artificial Ion Channels." Normand Voyer, assoc. prof. of organic chemistry, Universite Laval, Canada. Pharmacology Library: The Philip Needleman Library, Room 3907 South Bldg. 362-3365.

Thursday, Sept. 24

11:15 a.m.-12:15 p.m. Center for Mental Health Services Research brown-bag luncheon seminar. "The Nitty-Gritty of Interview-based Research: Recruiting, Training and Retaining Motivated and Reliable Interviewers." Arlene Stiffman, prof. of social work; Violet Horvath, social work project manager/study coordinator; Peter Dore, data manager; and Hope Krebill, social work study coordinator. Room 39 Goldfarb Hall. 935-5687. (See story on page 6.)

Noon. Genetics seminar. "Genetic Control of Developmental Timing in *C. elegans*." Victor Ambros, Dartmouth College, Room 823 McDonnell Medical Sciences Bldg. 362-3365.

Noon. Visual Sciences Seminar Series. "Unconventional Receptors and Mechanisms in Excitotoxicity." Carmelo Romano, asst. prof. of ophthalmology and visual sciences and of anatomy and neurobiology. East Pavilion Aud., Barnes-Jewish Hospital Bldg. 362-3365.

4 p.m. Chemistry seminar. "Recent Advances in Diradical Chemistry." Dan Little, prof. and chair of chemistry, UC-Santa Barbara. Room 311 McMillen Lab. 362-6530.

4 p.m. Earth and planetary sciences colloquium. "An Astronaut's Perspective of the Dynamic Earth." James F. Reilly II, geologist and shuttle astronaut, NASA Johnson Space Center. Room 362 McDonnell Hall. 935-5610.

4:15 p.m. Philosophy lecture. "The Many Problematic Solutions to the Problem of the Many." Hud Hudson, assoc. prof. of philosophy, Western Wash. U., Bellingham. Room 100 Busch Hall. 935-6670.

Friday, Sept. 25

9:15 a.m. Pediatric Grand Rounds. "Sudden Infant Death Syndrome: Controversies, Mechanisms and Prevention." Bradley T. Thach, prof. of pediatrics. Clopton Aud., 4950 Children's Place. 454-6006.

2 p.m. Thesis defense. "Mammalian Neurogenesis in Pluripotent Stem Cells." Michael F.A. Finley, neurosciences program. Room 426 McDonnell Medical Sciences Bldg. 362-3365.

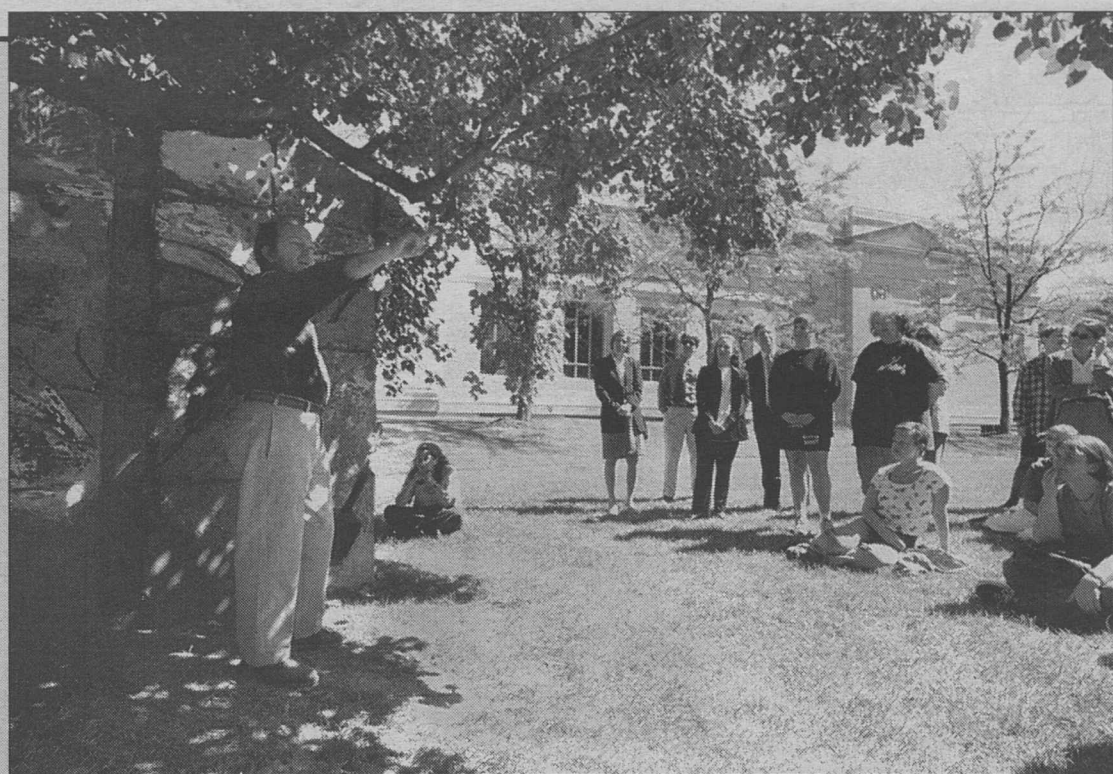
Saturday, Sept. 26

9 a.m. New Directions in Management Seminar Series. "Avoiding Management Failures in the Implementation and Use of Technology." Terri L. Griffith, assoc. prof. of organizational behavior and technology management. Sponsored by Olin Eliot Society. Cost: \$100; reduced rates for Olin Eliot Society or Olin Century Club members. Room 113 Simon Hall. 935-7398. (See story on page 6.)

Music

Saturday, Sept. 19

10 p.m. Concert. The Fields. Cost: \$8 for faculty and staff; free to students. The Gargoyle. 935-7576.



The Giving Tree The Saint Louis Art Museum unveils "The Giving Tree," an adobe structure by Ron Fondaw (left), professor of art, on Sept. 8. Fondaw based the sculpture (at left, rear) on traditional adobe building techniques using dirt, sticks, straw, tree branches and bright pigments worked directly into wet plaster. The title reflects Fondaw's belief that everything around us comes from and is inspired by nature. The work, which is intended to deteriorate naturally, will be on view on the museum's south lawn for four to six months.

Sunday, Sept. 20

3 p.m. Violin recital. "An Afternoon of Classical Music." Celina Boldrey, violin; Laureen DiBisceglie, piano; and Sarantis Symeonoglou, voice. Steinberg Aud. 935-4519.

Friday, Sept. 25

8 p.m. OVATIONS! Series concert. BeauSoleil Avec Michael Doucet. (Also Sept. 26, same time.) Cost: \$25. Edison Theatre. 935-6543.

Saturday, Sept. 26

8 p.m. Graduate recital. Music of Beethoven, Obradors, Telemann and Britten. Valerie Schaefer, soprano; Gail Hintz, piano; and Judd Brewer, violin. Graham Chapel. 935-4841.

Miscellany

Thursday, Sept. 17

7:30 p.m. Feminist reading group meeting. "Only Paradoxes to Offer: French Feminists and the Rights of Man" by Joan W. Scott. Cohen Lounge, Room 113 Busch Hall. 935-5102.

Saturday, Sept. 19

3 p.m. Poetry reading. Poet William Jay Smith will read from his new collection, "The World Below the Window: Poems 1937-1997." Room 300 Brookings Hall. RSVP to 935-5495.

Tuesday, Sept. 22

8 p.m. Poetry reading. Poet Adam Zagajewski of the University of Houston will read from his works. Hurst Lounge, Dunker Hall. 935-7130.

Thursday, Sept. 24

4:30 p.m. Memorial service. Service for the late Herbert E. Metz, prof. emeritus of drama and of English. Graham Chapel. 935-5858. (See story on page 7.)

Friday, Sept. 25

Noon-1 p.m. National Hispanic Heritage Month Celebration. Music, songs and dances from several Latin American countries and Spain. Steinberg Aud., Barnes-Jewish Hospital North. 362-8425 or 362-6622.

Sports

Thursday, Sept. 17

5:30 p.m. Men's soccer team vs. Aurora U. Francis Field. 935-5220.

Sports Section

Football undefeated

Despite yielding 535 total yards to 346 of its own, the Bears rallied from a three-touchdown deficit Saturday to register a 31-28 victory over Wheaton College (Ill.) at Francis Field. The Bears won their seventh consecutive home game when sophomore kicker Wesley Flake connected on a 27-yard field goal with 10 seconds remaining in the game. The score capped an 18-point fourth quarter for the Bears, who trailed 21-7 at halftime and 21-13 after three quarters.

Women's soccer outscores three 21-2

The women's soccer team improved to 4-1-0 on the year with three convincing wins last week. The Bears knocked off Principia College 6-1 on Wednesday, St. Mary's College 5-0 on Saturday and finished off the week with a 10-0 whitewash of Wittenberg University on Sunday. Senior forward Lori Thomas and junior forward Rachel Sweeney combined for 12 goals and five assists on the week. Sweeney, who had two goals in each win, and Thomas, who tallied her third career hat trick against Principia, have

scored goals in the same game 17 times in their 44-game career together. Senior Cindy Palmer added her first career hat trick and sophomore Hilary Bloom had her first career two-goal game in the win over Wittenberg. The Bear defense has allowed just two goals in five games this season.

Men's soccer falls

The men's soccer team fell to Rhodes College 1-0 Saturday, Sept. 18, in a regional contest at Memphis, Tenn. The Bears have lost two straight games to fall to 2-2 on the season but hold the No. 16 national ranking in the National Soccer Coaches Association of America Division III poll.

Volleyball coach nets 500th win

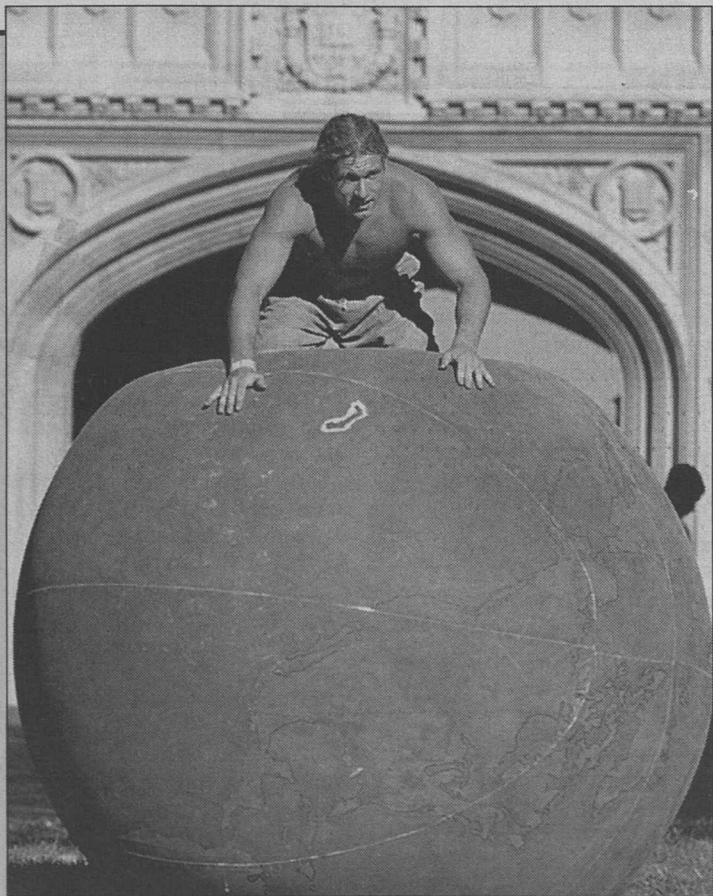
The volleyball team picked up its second tournament title of the year and coach Teri Clemens netted her 500th career win at the 1998 Washington University Classic last weekend. WU rolled to the tournament title winning all four matches by a 3-0 count. The Bears are 8-0 this season and haven't dropped a game in 24 chances. Senior Jenny Cafazza, the tournament MVP, led the way

by hitting .450 with 33 kills and added 35 digs and eight service aces. Fellow seniors Meg Vitter, who tallied 137 assists and 27 digs, and Jennifer Martz, who posted a team-high 42 kills and 18 total blocks, also were named to the all-tournament team.

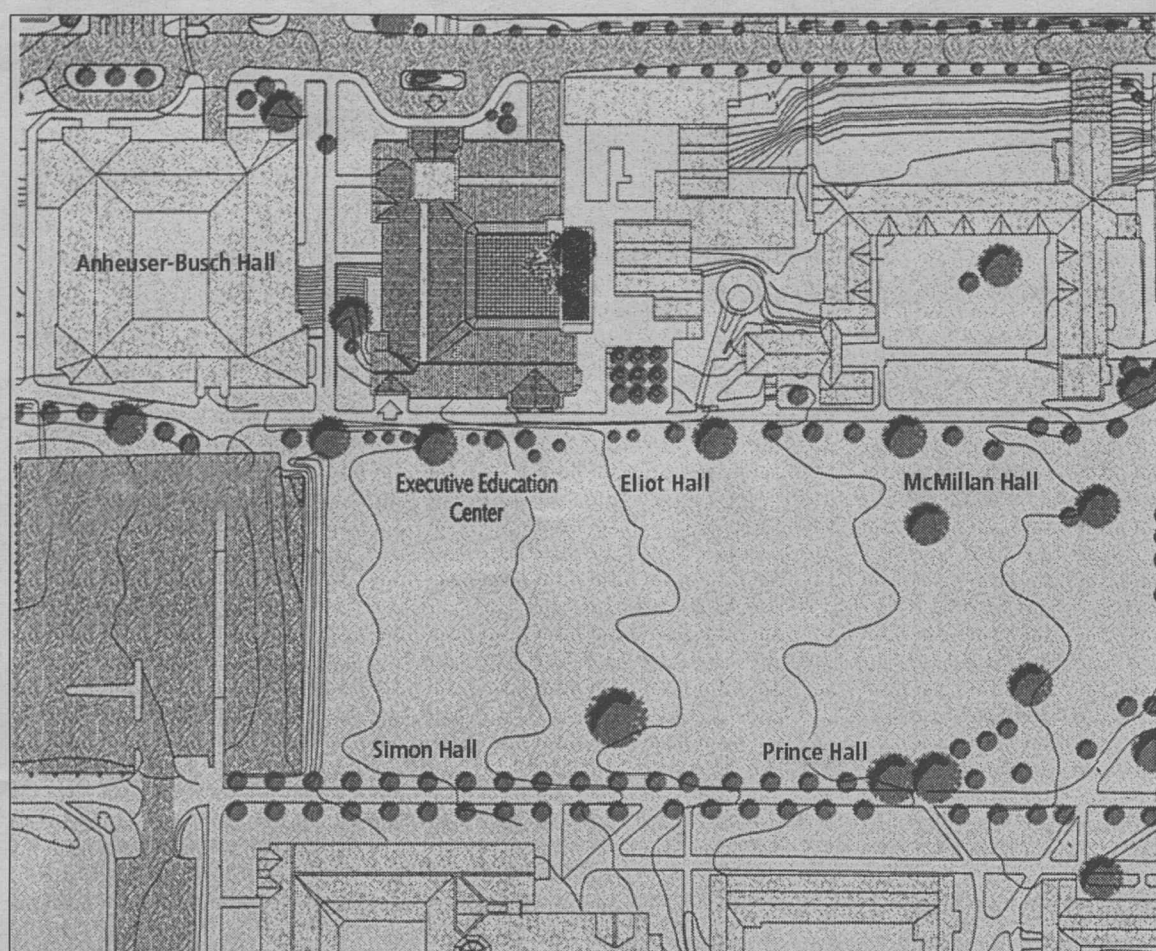
Runners sweep WU Invitational

The men's and women's cross country teams each took team titles at the Washington University Invitational last Saturday. The men, led by senior Tim Julien's victory on the 8,000-meter course, finished 36 points ahead of second place in the five-team field. Julien's time of 25 minutes, 54.23 seconds was more than 23 seconds better than the runner-up. Senior Emily Richard led the women to the crown with a win of her own. She clocked in at 18:35.08 on the 5,000-meter course, finishing more than 37 seconds better than her nearest competitor. The women's team finished seven points better than second-place Lindenwood in the seven-team field.

Compiled by Kevin Bergquist, director, sports information, and Keith Jenkins, asst. director, sports information. For up-to-date news about Washington University's athletics program, access the Bears' Web site at rescomp.wustl.edu/~athletics/.



One W.I.L.D. ride Fifth-year senior Shane Ulrich, a dual-major in mechanical engineering and biology, balances atop an inflatable globe at the annual Walk In Lay Down (W.I.L.D.) student bash Friday, Sept. 11, in Brookings Quadrangle.



A site plan shows the location of the planned Charles F. Knight Executive Education Center on the Hilltop Campus mall between Anheuser-Busch and Eliot halls.

Center

New building to house executive programs

— from page 1

products and systems for industrial, commercial and consumer markets, had sales that grew to \$12.3 billion in 1997. Its management practices are highly regarded and widely imitated. Knight joined Emerson in 1972, became chief executive officer a year later and assumed the duties of chairman in 1974.

Knight described the continuing education of managers as one critical element of a company's success. "To keep a competitive edge, a company must encourage managers to continue learning," he said. "This center will attract managers nationally and from around the world, as well as local executives who can obtain outstanding education without leaving our region."

The building, to be bounded on the north by Throop Drive and on the south by the campus mall, will allow the business school to expand its offerings of executive programs. The school's executive degree programs already are ranked No. 14 in the nation by U.S. News & World Report. It also will allow the school to broaden its non-degree offerings — open-enrollment courses and custom programs developed to meet a company's specific needs. Since 1993, the school has served more than 1,200 students in programs designed for companies including Anheuser-Busch, Edward Jones, Monsanto and SBC Communications.

"The Charles F. Knight Executive Education Center will allow us to provide the high-quality educational experience expected by management professionals," said Stuart I. Greenbaum, Ph.D., business school dean. "It will allow us to ensure our preeminence in executive education, and this, in

turn, will benefit all of Olin's programs. We are deeply indebted to Chuck Knight and Emerson Electric."

The architectural firm Kallmann, McKinnell & Wood of Boston is designing the building. The firm designed Simon Hall, completed for the business school in 1985; McDonnell Hall, completed in 1992; and Alvin Goldfarb Hall, completed in April 1998 for the George Warren Brown School of Social Work.

Additional parking will be provided by adding a third level to the above-ground parking decks in the existing Millbrook Parking Garage.

Greenbaum said executive education programs will continue to grow, especially as job changes become more frequent and corporations outsource non-core activities. "Managers of the future will require lifelong professional development," he said, "and Olin will be the provider of choice."

1998-99 management seminars to address workplace issues

Issues facing business persons in an increasingly competitive and rapidly changing workplace will be the focus of the New Directions in Management Seminar Series for 1998-99, presented by the Olin Eliot Society, which supports the John M. Olin School of Business.

First in the three-part series will be "Avoiding Management Failures in the Implementation and Use of Technology," led by Terri L. Griffith, Ph.D., associate professor of organizational behavior and technology management, at 9 a.m. Sept. 26 in Room 113 Simon Hall.

Griffith, who provides executive education and consulting services to national and international clientele, will direct the hands-on seminar designed to help participants:

- assess opportunities presented by technology;
- categorize technology based on its influence;
- assess the human and managerial factors associated with 90 percent of technology failures; and
- propose a new approach to

the implementation of technology.

The session also will deal with issues related to a broad spectrum of managerial roles and technology experience and discuss participants' technology management plans and outcomes.

Griffith, who received a doctoral degree in organizational psychology and theory from Carnegie Mellon University Graduate School of Industrial Administration, teaches at the executive level in various areas of organizational behavior and human resources, including management of teams, organizational change and conflict management and negotiation.

The second seminar, to be held in early spring, will address global supply chain management and will be led by Panos Kouvelis, Ph.D., professor of operations and manufacturing management. The third seminar is to be determined.

Registration for each seminar, which includes breakfast at 8:30 a.m. and a concluding luncheon at noon, is open to the public. For cost and information, call 935-7398.

Tyson

Science outreach program cited for excellence

— from page 1

Tyson. We've developed authentic assessment methods, performance-based, to identify what the students know and what they're able to do. This lets teachers know before coming out that the trip will be worthwhile and enriching."

Starke and Reid spent the summer a year ago connecting topics to curriculum and formulating assessment methods. Their efforts resulted in an SPP-published book titled "Correlation of Programs to Curriculum Standards," which includes connections and methods to pre-test students' knowledge of the topic and a post-test after the field trip to Tyson. They hope this information will help teachers select topics appropriate to their grade levels and course work.

"One of the important things with the assessments is that these are the kinds of tests that the state will use in the Missouri Assess-

ment Program (MAP) — the new performance-based achievement tests mandated by the state's Outstanding Schools Act of 1993," Starke said. "They're a more interactive way of testing when compared with multiple choice or true-false."

One of the assessments Starke and Reid have developed is the K-W-L Chart. Before the field trip, the students, using this chart, list in the far left what they know and in the center what they want to know. After the field trip, students list in the far right column all that they learned.

"We've done this with a number of groups, and it's always gratifying to see that the 'L' column is much longer than the 'K' column," Starke said. "So this is actually visual proof of assessment and very effective. Students like seeing how much they've learned, and they enjoy telling about it."

"Our programs have improved because of connections and assessments, and our teaching has improved," Starke added. "We hope that the use of authentic assessments will help ensure students' success on the new MAP tests."

National law dean search continues with advisory panel's aid

Chancellor Mark S. Wrighton has appointed a new advisory committee to assist him in the search for the next dean of the School of Law.

Wrighton named Daniel L. Keating, J.D., as dean of the law school July 1, while the national search continues. Keating has chosen not to be a candidate for a full term as dean.

The Advisory Committee on

the Appointment of the Dean of the School of Law will be charged with identifying three to five individuals with the intellectual, administrative, personal and leadership qualities sought for the new dean, Wrighton said.

Wrighton has named Kathleen F. Brickey, J.D., the James Carr Professor of Criminal Jurisprudence, to chair the committee. Other committee members are

John N. Drobak, J.D., professor of law and chair of the Faculty Senate Council; Lee Epstein, Ph.D., professor and chair of the Department of Political Science in Arts and Sciences; Donald P. Gallop, chairman of the St. Louis-based law firm Gallop, Johnson & Neuman and chair of the law school's National Council; the Hon. Jean C. Hamilton, chief judge, U.S. District Court, Eastern District of Missouri, and a National Council member; Pauline T. Kim, J.D., associate professor of law; and Peter J. Wiedenbeck, J.D., professor of law.

Center's brown-bag seminars help hone mental health research skills

Faculty, student and staff investigators interested in refining their methods of conducting mental health services research can participate in a series of Thursday brown-bag luncheon seminars sponsored by the Center for Mental

Health Services Research at the George Warren Brown School of Social Work.

The seminars will be held from 11:15 a.m. to 12:15 p.m. on Thursdays in Room 39 Goldfarb Hall. The center plans to hold about two seminars per month. All presenters are affiliated with the social work school.

The following three seminars have been scheduled:

Sept. 24: Arlene Stiffman, Ph.D.; Violet Horvath; Peter Dore; and **Hope Krebill** present "The Nitty-Gritty of Interview-based Research: Recruiting, Training and Retaining Motivated and Reliable Interviewers."

Oct. 22: Jodi Constantine: "Currents in the Economics of Mental Health Research: Report from an NIMH Workshop."

Nov. 5: Peter Dore: "Archiving Research Data Sets: When, How, Where and What Is It?"

For more information, contact Cindy Betz at 935-5687 or by e-mail at cindyb@gwbssw.wustl.edu.

Campus Watch

The following incidents were reported to University Police from Sept. 7-13. Readers with information that could assist in investigating these incidents are urged to call 935-5555. This release is provided as a public service to promote safety awareness and is available on the University Police Web site at rescomp.wustl.edu/~wupd.

Sept. 7

A student reported the theft of a bicycle from the south side of Lee Residence Hall. The bicycle was later recovered and returned to the student.

Sept. 10

A student reported the theft of a bicycle, lock and chain from a bike rack at Eliot Hall.

Sept. 13

A security guard at the South 40 residential house construc-

tion site reported observing the theft of a barbecue grill. A student reported the grill stolen Sept. 14.

A student reported the theft of handle bars and brake and shift levers from a mountain bike parked on the southeast side of the Athletic Complex. The brake and shift cables had been cut.

University Police also responded to one additional report of bicycle theft, two reports of theft and one report of vandalism.

Employment

Use the World Wide Web to obtain complete job descriptions. Go to cf6000.wustl.edu/hr/home (Hilltop) or medicine.wustl.edu/wumshr (Medical).

Hilltop Campus

Information regarding positions may be obtained in the Office of Human Resources, Room 130, West Campus. If you are not a WU staff member, call 935-9836. Staff members call 935-5906.

Payroll Services Representative 990063

Weekend/Evening Manager/Audio

Visual Reserve Assistant

990069

Research Intern 990071

Programmer Analyst 990072

IS Administration Project Leader 990074

Gift/Endowment Accountant 990075

Accounts Payable Representative Trainee 990076

Associate Director of Community Relations 990080

Medical Campus

This is a partial list of positions at the School of Medicine. Employees: Contact the medical school's Department of Human Resources at 362-7196. External candidates: Submit resumes to the Office of Human Resources, 4480 Clayton Ave., Campus Box 8002, St. Louis, MO 63110, or call 362-7196.

Medical Secretary II

990203

Clerk II 990218

Purchasing Assistant I 990230

Purchasing Assistant I 990249

Secretary II 990259

Research Animal Standards Coordinator 990327

Network Technician I 990329

Social Worker/Family Therapist 990359

Notables

Of note

Raymond E. Arvidson, Ph.D., professor and chair of earth and planetary sciences in Arts and Sciences, was selected Academic Adviser of the Year for 1997-98 for his extraordinary commitment and dedication to undergraduate students. The winner of the College of Art and Sciences award is selected by students. ...

Michael L. Gross, Ph.D., professor of chemistry in Arts and Sciences, recently received the Frank H. Field and Joe L. Franklin Award for Outstanding Achievement in Mass Spectrometry,

awarded by the American Chemical Society. ...

Jeffrey Kalina, M.D., instructor of medicine in the Division of Emergency Medicine, is the physician adviser to the St. Louis Fire Department, which recently was selected as Missouri's Emergency Medical Services System of the Year. The honor is sought annually by public and private EMS providers statewide. ...

Marvin E. Levin, M.D., professor emeritus of clinical medicine, was the recipient of the American Podiatric Medical Association's Distinguished Service Citation. The award is the

association's highest honor presented to a non-podiatrist and was given to Levin in recognition of his work in preventing amputation in patients with diabetes. ...

Muhua Li, Ph.D., of the Department of Surgery; **Jouko Lohi**, M.D., Ph.D., of the Department of Medicine; **William Ray**, Ph.D., of the Department of Psychiatry; and **Fang-Lin Sun**, Ph.D., of the Department of Biology, were named the 1998 W.M. Keck Fellows by the Division of Biology and Biomedical Sciences. Each year, the division selects four outstanding scientists in biomedical research with less than two years of postdoctoral research experience and awards each a fellowship of \$15,000 for partial stipend support. ...

Paul Michael Lützel, Ph.D., the Rosa May Distinguished University Professor in the Humanities and professor of Germanic languages and literatures in Arts and Sciences, recently received the Alexander von Humboldt Research Award for Researchers in the Field of Humanities. He also was invited to be a fellow at the Cultural Studies Institute in Essen, Germany. During the summer, Lützel lectured at various universities in five European countries and was the keynote speaker at an international and interdisciplinary symposium on multiculturalism in Sydney, Australia. ...

Paul C. Paris, Ph.D., professor of mechanical engineering, is the recipient of the American Society for Testing Materials' (ASTM) Charles B. Dudley Medal in recognition of his important contributions to the field of

fracture mechanics, his mentorship of the ASTM National Symposium and the numerous ASTM books and papers that have resulted from the symposia. The ASTM is one of the largest voluntary standards development systems in the world. ...

Jill Stratton, associate director of housing and residential life, has been selected to participate in the 1998 Coro Women in Leadership Program. The four-month training program provides an opportunity for participants to refine their personal and professional management and leadership skills to increase their effectiveness as leaders in the St. Louis metropolitan area. ...

Barna A. Szabo, Ph.D., the Albert P. and Blanche Y. Greensfelder Professor of Mechanics in the Department of Mechanical Engineering, received an honorary doctorate from the University of Miskolc in Hungary on Sept. 5. Szabo was honored for his life work.

Speaking of

Garland E. Allen, Ph.D., professor of biology in Arts and Sciences, recently gave three lectures as part of a course titled "Burdens of the Past: The Uses and Misuses in Concepts of Heredity" at the International School for the History of Biology and Medicine at Annecy, France. He also gave the opening lecture in a conference on postgenomics titled "A History of the Classical Concept of the Gene" at the Max

Planck Institute for the History of Science and Technology in Berlin. In addition, he participated in a workshop on "Does History Matter? Biology as an Historical Discipline" at the Massachusetts Institute of Technology and presented a talk on "Ethical Issues in Human Genetics" at the graduate course in mouse genetics at the Jackson Laboratory in Bar Harbor, Maine. ...

Jay F. Piccirillo, M.D., assistant professor of otolaryngology and director of clinical outcomes research, was the invited guest speaker at the annual meeting of the American Joint Committee for Cancer held in Chicago. His presentation was titled, "Inclusion of Comorbidity for Cancer Statistics."

To press

Donald H. Matthews, Ph.D., adjunct assistant professor of African and Afro-American Studies in Arts and Sciences, recently had his book, "Honoring the Ancestors: An African Cultural Interpretation of Black Religion and Literature," published by Oxford University Press. The book was completed during Matthews' postdoctoral fellowship in 1996 and 1997.

Guidelines for submitting copy:

Send your full name, complete title(s), department(s), phone number and highest earned degree(s), along with a description of your noteworthy activity, to Notables, c/o David Moessner, Campus Box 1070, or e-mail David_Moessner@aismail.wustl.edu. Items must not exceed 75 words. For information, call 935-5293.

Stone appointed director of International Studies

Priscilla Stone, Ph.D., has been appointed director of the Office of International Studies and adjunct professor of anthropology in Arts and Sciences, according to Edward S. Macias, Ph.D., executive vice chancellor and dean of Arts and Sciences.

Stone will direct the University initiative to expand the curriculum and programing in this major area of undergraduate and graduate education. In addition, the existing functions of international studies —



Stone: International curriculum expands

including funding programs such as the Fulbright and international program development — will continue.

Under Stone's leadership, several programs have been consolidated in international studies. The Office of Overseas Programs, guided by Interim Director Robert Booker, now is

directly incorporated into international studies. Booker replaces Michele W. Shoresman, Ph.D., who has become director of graduate and joint degree programs in the School of Law.

Stone also has become director of the International Studies as a Second Major Program. She replaces Richard J. Walter, Ph.D., professor of history.

Stone has been at the University for three years, teaching in anthropology and serving as coordinator of African and international studies — roles in which she will continue. Prior to her arrival, she was director of the Africa Program at the Social Science Research Council in New York.

Stone earned a doctorate in anthropology in 1988 from the University of Arizona, with research specialties in agricultural development, globalization and gender studies. She is the author of numerous articles on agrarian development and change in Africa and co-editor of "Rethinking Commodities: Anthropological Views of the Global Marketplace" and "Population and Environment: Rethinking the Debate."

Stratton named associate director of housing and residential life

Three residential college directors appointed

Jill Stratton has been named associate director of housing and residential life, according to Justin X. Carroll, assistant vice chancellor for students and dean of students.

A member of the staff since 1993, Stratton has served in a variety of key administrative positions within the office, including area coordinator for Umrath, Rubelmann, Park and the former Wydown and Washington halls; coordinator for community education; and assistant director.

As associate director, Stratton will oversee the residential life segment of the student housing operations, including resident adviser selection and training, programming and community development. She also will serve as liaison to academic deans, faculty and other student services areas.

In addition, she will assist with the development and implementation of the residential college system while providing direct support to the nine residential college directors. ••

Stratton received a bachelor's degree in psychology in 1991 from Transylvania University in Lexington, Ky. She earned a master's degree in higher education administration in 1993 from

Indiana University in Bloomington.

Carroll also announced the appointment of three new residential college directors, who are responsible for directing operations and programmatic efforts as well as supervising the staff.



Stratton: Oversees residential life

Rebekah Freeman will serve as the director for the Lee-Beaumont residential college. Freeman received a bachelor's degree in 1994 from Colby College in Waterville, Maine, and a master's degree in student personnel administration in 1998 from New York University.

Clay Patty is the new director for the Koenig-Liggett residential college. He earned a bachelor's degree in 1994 from Grinnell College in Iowa and a master's degree in student affairs administration in 1998 from Indiana University in Bloomington.

Andy Wilson takes the reins as director for the Rubelmann-Umrath residential college. He earned a bachelor's degree in 1996 from Winthrop University in Rock Hill, S.C., and a master's degree in student personnel services in 1998 from Virginia Polytechnic Institute and State University in Blacksburg, Va.

School of Social Work to honor distinguished alumni, faculty and Dean's medalist Oct. 2

The George Warren Brown School of Social Work will honor two distinguished alumni, a distinguished faculty member and the recipient of the Dean's Medal for outstanding school service at its annual alumni banquet. The event will be held Oct. 2 in Holmes Lounge.

The 1998 Dean's Medal recipient is **Richard F. Ford**, a St. Louis banking and investment management executive who has served the University as a member of the Board of Trustees since 1981 and has long been active on numerous school advisory committees, including current chairmanship of the social work school's National Council and its Capital Campaign.

Ford began his business career in 1961 with Merrill Lynch managing the St. Louis institutional sales and corporate finance operations from 1967 to 1969. He moved to First National Bank of St. Louis in 1969 and quickly worked his way into top management. He graduated from the

Columbia University School of Business Executive Program in Business Administration in 1972 and was elected senior vice president of the bank, then part of Centere Bancorporation.

Ford held several executive positions with Centerre, including president of the firm from 1978 to 1983. Since 1984, he has been a managing general partner of Gateway Partners L.P., a venture capital fund with assets of \$100 million and investments in the areas of health care, telecommunications and computers.

The 1998 Distinguished Alumni awardees, selected on the basis of accomplishments in the field of social work and service to the school, are **G. Lee Judy** (MSW '82), executive director of Life Crisis Services Inc., a St. Louis-based suicide prevention hotline and counseling service, and **Hans Mayer** (MSW '61), a prominent leader of Jewish organizations, including nearly 40 years at the helm of Jewish community centers and federations in St. Louis and Houston.

Judy received three graduate degrees from the University — a master of business in organizational behavior in 1976, a master of education in counseling psychology in 1980 and a master of social work with a clinical concentration in 1982.

During his 20-year tenure as executive director of Life Crisis Services, the agency has seen its annual budget increase from \$500,000 to \$1.2 million, while adding nationally innovative new programs for the elderly, for gamblers and for residents battling crime in North St. Louis neighborhoods. Meanwhile, he has taught courses at the social work school in group therapy, leadership planning and decision-making, life

crises and coping with stress, personnel management and contemporary issues in management.

Mayer holds two degrees from the University — a bachelor of business administration received in 1957 and a master of social work degree earned in 1961. From 1959 to 1971, Mayer worked as an assistant executive director and in other staff capacities with the St. Louis Jewish Community Center Association. During this period, he also served as a field instructor for students at the social work school. He moved to Texas, serving as executive director of the Jewish Community Center of Houston until 1977, when he began his tenure as the executive director of the Jewish Federation of Houston. He went on to serve 18 years as the Houston Federation's chief executive officer, retiring in 1995.

Enola K. Proctor, Ph.D., the Frank J. Bruno Professor of Social Work Research, is the 1998 recipient of the Distinguished Faculty Award for Service to the School. The award is presented to a social work school faculty member who displays genuine dedication and distinguished service to the school. Individuals are recognized for responsiveness in their relationships with students, scholarly activity, research capabilities, academic honors and service to the community.

A faculty member since 1977, Proctor also has served as director of the school's Center for Mental Health Services Research since 1993. She has extensive research and teaching experience on social issues related to health and mental health services with a special focus on transitional services provided to the elderly.

Memorial service for Herbert Metz

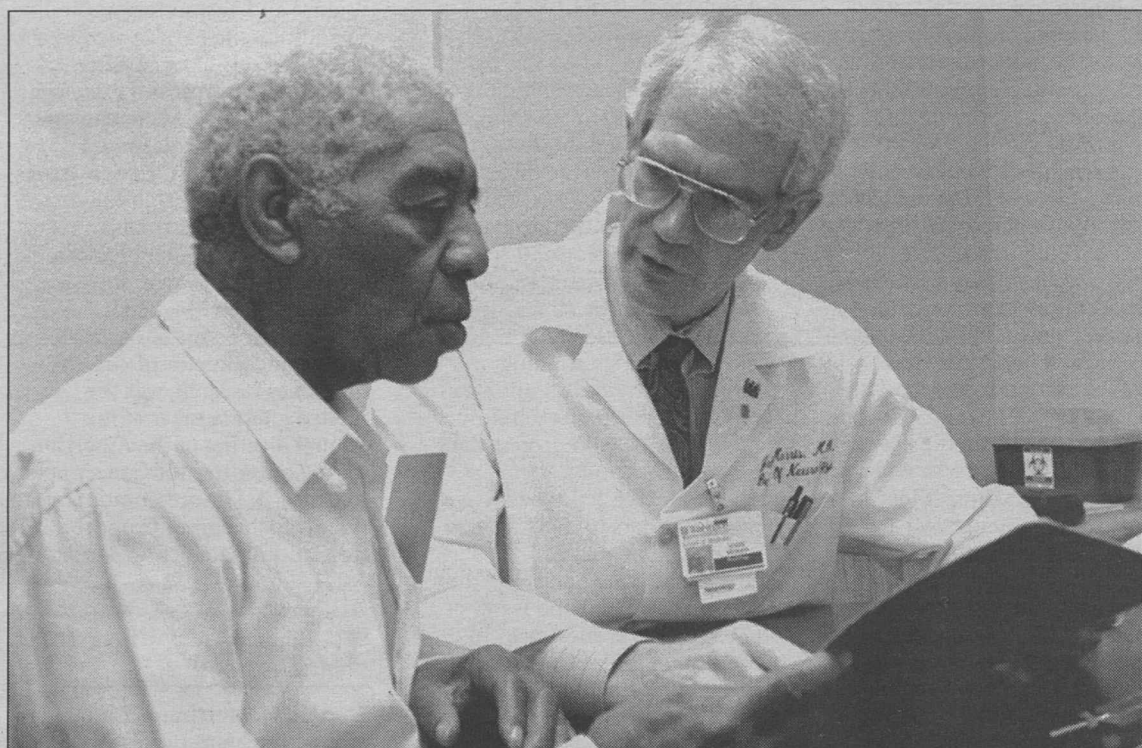
A memorial service for Herbert E. Metz, professor emeritus of drama and of English in Arts and Sciences, will be held at 4:30 p.m. Thursday, Sept. 24, in Graham Chapel.

The service will be followed by a reception in the Women's Building Formal Lounge.

Metz, who died of complications stemming from heart failure Aug. 25, taught at the University for 40 years. He was 77.

For more information, call 935-5858.

Washington People



John C. Morris, M.D., (right) talks with a patient in the Memory and Aging Project.

Finding subtle signs that help spot the onset of Alzheimer's

The pathfinding work of John C. Morris, M.D., has given a measure of hope and help to victims of a cruel disease

By CAROLINE DECKER

The clues are often subtle: A 75-year-old former businessman who has always prepared his own income tax return is now turning over this responsibility to an accountant; an 80-year-old grandmother of six is having trouble remembering her friends' names, her children's birthdays and her grandchildren's ages; and during social occasions, an otherwise active 67-year-old increasingly avoids meaningful conversation and instead appears content to sit alone.

A decade ago, such descriptions would have been casually dismissed as normal signs of aging. Today, thanks to research by John C. Morris, M.D., and his colleagues at the School of Medicine's Alzheimer's Disease Research Center (ADRC), physicians know that some deterioration in memory, thinking and behavior — even in advanced age — may be symptoms of early Alzheimer's disease.

Morris, the Harvey A. and Dorismae Hacker Friedman Professor of Neurology and co-director of the ADRC, is a highly regarded expert in the early diagnosis of Alzheimer's disease, an incurable disorder that inevitably leads to a loss of mental and physical abilities.

The disease affects 4 million Americans, and those who have it eventually experience severe dementia that includes memory loss and declines in other areas of intellectual functioning, as well as personality and behavior disturbances. As the disease progresses, these changes interfere with the patients' ability to function. They might be disoriented in familiar places or be unable to dress or bathe themselves. They might no longer even recognize their loved ones.

Morris, who received a medical degree from the University of Rochester School of Medicine and Dentistry in 1974, has long been intrigued by how brain function relates to personality, memory and other intellectual abilities, and he initially considered a career in psychiatry. But during his training as a resident in neuropathology at Cleveland Metropolitan General Hospital, he became interested in how particular lesions in the brain are associated with disturbances in

behavior and cognition, the attributes of patients with Alzheimer's disease.

When he joined the medical school in 1982 as a postdoctoral fellow in neuropharmacology, the image of a patient with Alzheimer's disease was someone with advanced disease who could no longer care for himself. In 1983, he moved into the neurology department and began to focus his research on the symptoms of early Alzheimer's disease.

"It became clear to me that the disease often was not recognized in its milder stages and that many of the initial memory and intellectual problems were attributed simply to normal aging," Morris said.

social interactions. They also measure cognitive abilities such as memorization and word fluency.

"John Morris is one of the most highly regarded Alzheimer's disease researchers in the country," said Jeffrey Cummings, M.D., the Augustus Rose Professor of Neurology and director of the Alzheimer's Disease Center at the University of California-Los Angeles. "He has made unique and important contributions to early detection and staging of Alzheimer's disease."

Alzheimer's markers

In a widely cited paper published in 1991 in the journal *Neurology*, Morris and his colleagues compared clinical and autopsy findings from people judged to be in the very mild stages of the disease with those from healthy people. Their discovery that only the brains of mildly demented patients contained markers for Alzheimer's disease — tangled nerve cells and plaques of a protein called beta-amyloid — suggested that the disorder can indeed be diagnosed in the very early stages, when patients seemingly carry out most of their everyday activities.

Another widely quoted study, published in the same journal in 1996, challenged the prevalent view that beta-amyloid plaques accumulate during normal aging as well as in Alzheimer's disease. Comparing autopsy findings from healthy and from very mildly demented people who had been monitored by the Memory and Aging Project for many years, Morris and his colleagues found few or no plaques in healthy subjects. The participants who were just beginning to show signs of dementia had copious plaques in the brain, suggesting that the deposition of beta-amyloid may be a key event in the development of Alzheimer's disease, occurring before marked symptoms.

"Dr. Morris has special expertise in distinguishing very mild Alzheimer's disease from normal aging," said Leonard Berg, M.D., professor emeritus of

function and memory for six months to a year.

Morris also leads the Memory Diagnostic Center and Alzheimer Treatment Unit at Barnes-Jewish Hospital, which provides multidisciplinary care for patients with dementia. While physicians increasingly employ sophisticated diagnostic tools such as computer-assisted tomography scans, magnetic-resonance imaging and elaborate blood tests to pinpoint disease markers, such state-of-the-art technology is not yet able to detect Alzheimer's disease conclusively.

Experts who specialize in the diagnosis of Alzheimer's continue to rely heavily on in-depth interviews of patients and family members who are familiar with their everyday activities. Through interviews, key features of early Alzheimer's disease such as declines in reasoning, problem solving and memory can be identified and applied to the Washington University Clinical Dementia Rating (CDR), developed almost 20 years ago by Berg and his colleagues at the medical school. The CDR later was modified by Morris and his co-workers.

This assessment scale is recognized throughout the world for its ability to determine the presence and degree of dementia. Because two-thirds or more of the individuals with mild Alzheimer's disease are unaware that they have a deficit, interviews with family members are crucial for gathering information about how a patient is performing in relation to how he or she used to perform.

Clinical skills

Among his colleagues, Morris is admired for insisting that neurologists should rely on their own clinical skills — not technology — to diagnose Alzheimer's disease. "In this era of high-tech medicine," said Ronald C. Petersen, M.D., Ph.D., professor of neurology at Mayo Medical School and director of the Alzheimer's Disease Center at the Mayo Clinic in Rochester, Minn., "he has always been at the forefront of emphasizing that the clinician has the ultimate responsibility in deciding if a patient has Alzheimer's disease and that the clinical interview is the backbone of making a diagnosis."

In his avocations as well, Morris depends on skills honed by long practice. He enjoys the outdoors, especially hiking and fishing, and went this summer to Philmont Boy Scout Ranch in New Mexico where he and his 14-year-old son, Ted, hiked 75 miles through the Sangre de Cristo Mountains. The 11-day adventure was all part of Ted's scouting experience — on the same trail that Morris had explored in 1962 when he, too, was a 14-year-old scout. Last year the entire Morris family, including his wife, Lucy, and daughters, Carrie, 15, and Mary, 10, hiked the peaks and canyons of Grand Teton National Park in Wyoming.

Morris has covered a lot of ground, both on foot and in the complex study of Alzheimer's disease. He and his colleagues have made tremendous progress in the past decade in understanding this tragic ailment.

"We don't yet have a cure for the disease or a way to prevent it, but given the pace of discovery, I think we will in the next 20 to 30 years," he said. "We continue to be indebted to our patients and their families and the research volunteers — some of whom have returned annually for the past 20 years. We could not have accomplished so much without them."

John C. Morris, M.D.

Education University of Rochester School of Medicine and Dentistry

Position The Harvey A. and Dorismae Hacker Friedman Professor of Neurology; co-director, Alzheimer's Disease Research Center; director, Memory and Aging Project

Hobbies Hiking and fishing

"John Morris is one of the most highly regarded Alzheimer's disease researchers in the country."

JEFFREY CUMMINGS

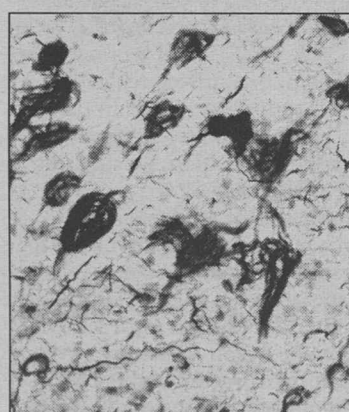
His earliest contributions to Alzheimer's disease were to emphasize that any cognitive changes that prevented an individual from carrying out his or her daily routine in the usual way might be a signal of the mildest form of the disease.

"People have heard that the only sure way of diagnosing Alzheimer's disease is to do an autopsy," said Morris, also director of the Memory and Aging Project, which recruits and tests participants in memory and aging studies. "The clinical techniques developed in the Memory and Aging Project, however, can yield diagnostic accuracy during life of 93 to 95 percent."

These diagnostic procedures include clinical assessments by physicians and nurses and relatives' reports of a person's performance of everyday tasks such as shopping, driving and

neurology at the medical school and former director of the Alzheimer's Disease Research Center. "Clinically, early diagnosis is a very important step forward because the sooner a person knows he has Alzheimer's, the more involved he or she can be in understanding the illness and making decisions about the future."

In addition, those patients diagnosed with early Alzheimer's stand to benefit the most from new medications that can control symptoms of the disease and delay its progression. Morris and his University colleagues are extensively involved in evaluating new medications for Alzheimer's. While the drugs cannot cure the disease or restore memory and cognitive abilities to what they were before a patient is diagnosed, they can help patients maintain their current level of intellectual



German neurologist Alois Alzheimer, who first identified the disease that bears his name, viewed the disease's

distinctive neurofibrillary tangles in the brain and drew what he saw (above left). With modern staining methods and equipment, neurofibrillary tangles look far different (top).